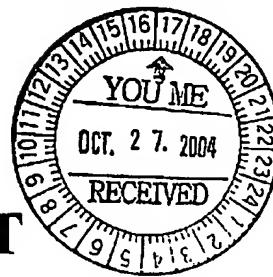


PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY



PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

<p>To: YOU ME PATENT AND LAW FIRM Seolim Bldg., 649-10 Yoksam-dong, Kangnam-ku, Seoul 135-080, Republic of Korea</p>		<p>Date of mailing (day/month/year) 20 OCTOBER 2004 (20.10.2004)</p>	
<p>Applicant's or agent's file reference OPP041575KR</p>		<p>FOR FURTHER ACTION See paragraph 2 below</p>	
<p>International application No. PCT/KR2004/001569</p>	<p>International filing date (day/month/year) 28 JUNE 2004 (28.06.2004)</p>	<p>Priority date(day/month/year) 27 JUNE 2003 (27.06.2003)</p>	
<p>International Patent Classification (IPC) or both national classification and IPC IPC7 H04L 9/14</p>			
<p>Applicant KT Corporation et al</p>			

1. This opinion contains indications relating to the following items:

Box No. I Basis of the opinion
 Box No. II Priority
 Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
 Box No. IV Lack of unity of invention
 Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
 Box No. VI Certain documents cited
 Box No. VII Certain defects in the international application
 Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.
For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

<p>Name and mailing address of the ISA/KR  Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea</p>	<p>Authorized officer JEONG, Jae Woo Telephone No. 82-42-481-5718</p>
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WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/KR2004/001569

Box No. I Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
 This opinion has been established on the basis of a translation from the original language into the following language _____, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material
 a sequence listing
 table(s) related to the sequence listing
 - b. format of material
 in written format
 in computer readable form
 - c. time of filing/furnishing
 contained in the international application as filed.
 filed together with the international application in computer readable form.
 furnished subsequently to this Authority for the purposes of search.
3. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/KR2004/001569

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	YES
	Claims	NO
Inventive step (IS)	Claims	YES
	Claims	NO
Industrial applicability (IA)	Claims	YES
	Claims	NO

2. Citations and explanations :

D : US 20030037241 (2003.2.20)

The claimed inventions relate to a two-factor authenticated key exchange method, in which a subscriber terminal sends an authentication message for a subscriber and an encryption word generated using a random number, a password and a symmetric key to an authentication server, and receives an authentication message for authentication server, and finally authenticates the received authentication message using the crypto-key and the password.

D discloses a method for authenticating a message recipient using a data encryption with a symmetric key algorithm and an authentication key generated by hashing algorithm.

Both of the cited document and the claimed invention describe the authentication method, in which a terminal send an authentication message to a server and receive an authentication message from the server, and the authentication is done using a password and a symmetric key. Even though the pre-computation process using a random number of the claimed invention is not shown in the citation and the extensible authentication protocol and the RADIUS protocol used in the claimed invention is not referred in the citation, these features of the claimed invention are obvious to a person skilled in the art or are suggested in the prior art. Therefore, the claims 1-21 are not considered to fulfil the requirement of novelty and inventive step under PCT Article 33(2)(3).